

MARINE ECOLOGY PROGRESS SERIES

Volume 103 (1994)

Editor
Otto Kinne

Assistant Editor: John Austin

Editorial Assistants: Scott Hanson, Richard Hooper, John Hunt, Rosemarie Stedjee

Ecology Institute, Nordbunte 23, D-21385 Oldendorf/Luhe, Germany
Tel (+49) (0)4132 7127, Fax (+49) (0)4132 8883



Inter-Research

1994

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Marine Ecology Progress Series (MEPS) is edited in cooperation with the Editorial Advisors (EAs) listed below and about 400 Anonymous Referees. EAs are appointed for a 4-year period; re-appointment is possible. They critically evaluate the scientific merits of submitted manuscripts. EAs recommend authors and topics for reviews to be published in MEPS. Their addresses and fields of expertise are detailed at the end of the last (3rd) issue of each volume, together with the volume contents.

Several EAs have been appointed as Senior EAs, marked below by ®; they may act as Sub-editors by processing manuscripts themselves, i.e. see them through a rigorous 3-referee evaluation process and present them to the Editor who reserves the right of final acceptance.

ENVIRONMENTAL FACTORS

Ahmed, S. I., Prof.

School of Oceanography, WB-10, University of Washington, Seattle, WA 98195, USA
Physiological ecology of phytoplankton; thermophilic microorganisms

Alderdice, D., Dr

Pacific Biological Station, Nanaimo, B.C., Canada V9R 5K6
Responses to environmental factors

Collos, Y., Dr ®

Laboratoire d'Hydrobiologie, Université de Montpellier CC 093, F-34095 Montpellier Cedex 5, France
Nitrogen metabolism of phytoplankton

Dring, M. J., Dr

Botany Dept, The Queen's Univ. of Belfast, Belfast BT7 1NN, Northern Ireland
Physiological ecology of algae

Fisher, N. S., Dr

Marine Sciences Research Center, State Univ. of New York, Stony Brook, NY 11794-5000, USA
Physiological ecology of phytoplankton

Fowler, S. W., Dr ®

IAEA, ILMR, Stade Louis II, Entrée C-19, Ave des Castellans, MC-98000 Monaco
Trace element metabolism

Haedrich, R. L., Prof. ®

Memorial University of Newfoundland, St. John's, Nfld, Canada A1B 3X9
Environmental effects on fishes (incl. deep sea)

Kasyanov, V., Dr

Institute of Marine Biology, Academy of Sciences, Vladivostok 690032, Russia
Environmental effects on invertebrates; reproduction, development

Kjørboe, T., Dr ®

Danish Institute for Fisheries and Marine Res., Charlottenlund Castle, DK-2920 Charlottenlund, Denmark
Physiological ecology of zooplankton, including fishes (esp. larvae)

Lawrence, J. M., Prof. ®

Dept of Biology, Univ. of South Florida, Tampa, FL 33620, USA
Physiological ecology of invertebrates

Luoma, S. N., Dr

US Dept of the Interior, Geological Survey, Water Resources Div., 345 Middlefield Rd, Menlo Park, CA 94025, USA
Geochemical and biological factors affecting biochemical processes in invertebrates; contaminant effects on bioavailability

McLusky, D. S., Dr ®

Dept of Biological Sciences, Univ. Stirling, Stirling FK9 4LA, Scotland
Physiological ecology of invertebrates

Meyer-Reil, L.-A., Dr

Institut für Ökologie, Schwedenhagen, D-18565 Kloster/Hiddensee, Germany
Environmental effects on benthic microorganisms, benthic microbial ecology

Meyers, S. P., Prof. ®

Dept of Food Science, Louisiana State Univ., Baton Rouge, LA 70803, USA
Physiological ecology of microorganisms

Paasche, E., Prof.

Dept of Biology, Univ. Oslo, Marine Botany, PO Box 1069, Blindern, N-0316 Oslo 3, Norway
Physiological ecology of phytoplankton; primary production; benthic algae

Rheinheimer, G., Prof.

Institut für Meereskunde, Univ. Kiel, Düsternbrook Weg 20, D-24105 Kiel, Germany
Marine microbiology

Riisgård, H. U., Dr ®

Odense Universitet, Biologisk Institut, Campusvej 55, DK-5230 Odense M., Denmark
Environmental effects on invertebrates; bioenergetics of suspension feeders

Southward, A. J., Dr

Plymouth Marine Laboratory, Citadel Hill, Plymouth PL1 2PB, England
Environmental effects on invertebrates

West, J. A., Prof.

Dept of Plant Biology, Univ. of California, 111 Genetics Plant Biology Bldg, Berkeley, CA 94720, USA
Physiological ecology and reproductive biology of estuarine and marine benthic macroalgae

Westernhagen, H. von, Dr

Biologische Anstalt Helgoland, Notkestr. 31, D-22607 Hamburg, Germany
Effects of pollution on marine communities

PHYSIOLOGICAL MECHANISMS

Alderdice, D., Dr

Pacific Biological Station, Nanaimo, B.C., Canada V9R 5K6
Resistance to stress including pollution; regulation; adaptation

Batty, R. S., Dr

Dunstaffnage Marine Research Laboratory, PO Box 3, Oban, Argyll PA34 4AD, Scotland
Behavioural physiology of fish; feeding; predation of fish larvae

Browman, H. I., Dr

Marine Productivity Division, Maurice-Lamontagne Institute, Dept of Fisheries and Oceans Canada, C.P. 1000, Mont-Joli, Québec, Canada G5H 3Z4
Foraging behavior and development of (sensory) organs, especially in fishes

Brown, B. E., Dr

Dept of Biology, The University, Newcastle-upon-Tyne NE1 7RU, England
Physiology and ecology of corals

Burton, R. S., Prof.

Marine Biology Research Division 0202, Scripps Institution of Oceanography, University of California, 9500 Gilman, La Jolla, CA 92093-0202, USA
Population genetics; evolutionary mechanisms in populations; biochemical and molecular genetic analyses of invertebrates

Caron, D. A., Dr ®

Biology Dept, Woods Hole Oceanographic Institution, Woods Hole, MA 02543, USA
Feeding, respiration and nutrient regeneration of protozoans

Chapman, A. R. O., Prof. ®

Institut für Meereskunde, Univ. Kiel, Düsternbrook Weg 20, D-24105 Kiel, Germany
Physiology and demography of macroalgae

Conover, R. J., Dr

Marine Ecology Laboratory, Bedford Institute of Oceanography, PO Box 1006, Dartmouth, N.S., Canada B2Y 4A2
Physiology and biochemistry of zooplankton

Enright, J. T., Prof.

Scripps Institution of Oceanography, San Diego, PO Box 1529, La Jolla, CA 92093, USA
Biological rhythms

Forward, R. B., Jr, Dr

Duke University Marine Laboratory Pivers Island, Beaufort, NC 28516-9721, USA
Environmental zoo-physiology; behavior; biological rhythms

Gerking, S. D., Prof.

Dept of Zoology, Arizona State Univ., Tempe, AZ 85281, USA
Fish physiology

Holland, N. D., Prof. ®

Scripps Institution of Oceanography, San Diego, PO Box 1529, La Jolla, CA 92093, USA
Comparative, cellular and developmental physiology

Humphrey, G. F., Dr ®

CSIRO Marine Biochemistry, Building A12, Sydney Univ., N.S.W. 2006, Australia
Photosynthesis; plankton biochemistry

Letfley, J. W., Dr

Dunstaffnage Marine Research Laboratory, PO Box 3, Oban, Argyll PA34 4AD, Scotland
Physiology and biochemistry of microalgae (laboratory and field); nitrogen metabolism

Levandowsky, M., Dr ®

Haskins Laboratories at Pace Univ., 41 Park Row, New York, NY 10038, USA
Chemosensory behavior; mathematical models

McLusky, D. S., Dr ®

Dept of Biological Sciences, Univ. Stirling, Stirling FK9 4LA, Scotland
Osmoregulation in estuarine invertebrates

Naylor, E., Prof.

School of Ocean Sciences, Univ. of Wales, Menai Bridge, Gwynedd LL59 5EY, Wales
Behavioural physiology; invertebrate biology

Pawlik, J., Dr

The University of North Carolina at Wilmington, Wilmington, NC 28403-3297, USA
Chemical defense of invertebrates; anti-fouling, chemical cues

Puiseux-Dao, S., Prof.

Laboratoire de Cytophysiologie végétale et de Toxicologie cellulaire, Université de Paris VII, 2 Place Jussieu, F-75251 Paris Cedex 05, France
Ecophysiology and toxicology of algae; cellular biology; behavior of algae

Rivkin, R. B., Prof.

Ocean Sciences Centre, University of Newfoundland, St. John's, Nfld, Canada A1C 5S7
Phytoplankton physiology and ecology

Shick, J. M., Prof. ®

Dept of Zoology, Univ. of Maine, Murray Hall, Orono, ME 04469-5751, USA
Physiological energetics of invertebrates, incl. metabolic calorimetry; symbioses; hyperoxia and oxidative stress; effects of UV light; sea anemone biology

Videler, J. J., Dr

Dept of Marine Biology, Univ. of Groningen, PO Box 14, 9750 AA Haren, The Netherlands
Swimming dynamics of plankton; activity pattern and reproductive strategies of fishes; energy budgets of herbivores

West, J. A., Prof.

Dept of Plant Biology, Univ. of California, 111 Genetics Plant Biology Bldg, Berkeley, CA 94720, USA
Chemistry of red algae; molecular genetics of red and green algae

Wieser, W., Prof.

Institut für Zoologie der Leopold-Franzens Universität Innsbruck, Technikerstraße 25, A-6020 Innsbruck, Austria
Physiological ecology of invertebrates

Lewis, J. B., Dr

Dept of Biology, McGill Univ., Stewart Biology Bldg, 1205 Dr. Penfield, Montreal, Quebec, Canada H3A 1B1

Coral-reef ecology; tropical marine biology

Lewis, M. R., Dr

Dept of Oceanography, Dalhousie University, Halifax, N.S., Canada B3H 4J1

Biological oceanography; phytoplankton physiology; modelling of physical and biological processes

Lobel, P. S., Dr

Woods Hole Oceanographic Institution, Woods Hole, MA 02543, USA

Fish ecology, behavior, biogeography; coral reefs; fisheries and oceanography

Luoma, S. N., Dr

US Dept of the Interior, Geological Survey, Water Resources Div., 345 Middlefield Rd, Menlo Park, CA 94025, USA

Feeding ecology of deposit feeders; geochemistry of trace elements in sediments

Marcus, N. H., Dr

Dept of Oceanography, Florida State Univ., B-169, Tallahassee, FL 32306-3048, USA

Zooplankton ecology; biology and genetics of invertebrate populations; rhythms (e.g. spawning, feeding)

Mauchline, J., Dr

Scottish Marine Biological Ass., Dunstaffnage Marine Research Laboratory, PO Box 3, Oban, Argyll PA34 4AD, Scotland

Deep-sea ecology; radioactive pollution

Moriarty, D., Dr

CSIRO Marine Laboratories, Division of Fisheries, PO Box 120, Cleveland, Qld 4163, Australia

Microbial ecology and biochemistry; role of microorganisms in bio-geochemical cycles and food webs; molecular techniques in bacterial ecology

Nelson, D. M., Prof.

College of Oceanography, Oregon State Univ., Oceanography Admin. Bldg 104, Corvallis, OR 97331, USA

Phytoplankton ecology; nutrient cycling

Newell, S. Y., Dr

The University of Georgia, Marine Institute, Sapelo Island, GA 31327, USA

Ecology of fungi and bacteria; decomposition

Nybakken, J., Prof.

Moss Landing Marine Laboratories, California State Univ., PO Box 450, Moss Landing, CA 95039-0450, USA

Ecology of molluscs; community structure of soft-sediment invertebrates

Pawlik, J., Dr

The University of North Carolina at Wilmington, Wilmington, NC 28403-3297, USA

Ecology and biology of invertebrate larvae; settlement; recruitment; life histories; dispersal; natural products

Pearse, J. S., Prof.

Center for Coastal Marine Studies, Univ. of California, Santa Cruz, CA 95064, USA

Kelp forest ecology; reproductive ecology

Peterson, C. H., Prof.

Institute of Marine Science, Univ. of N. Carolina at Chapel Hill, 3407 Arendell Street, Morehead City, NC 28557, USA

Marine benthic ecology; population biology

Platt, T., Dr

Marine Ecology Laboratory, Bedford Institute of Oceanography, PO Box 1006, Dartmouth, N.S., Canada B2Y 4A2

Phytoplankton ecology; primary production

Purcell, J. E., Dr

The University of Maryland Systems, Center for Environmental and Estuarine Studies, PO Box 775, Cambridge, MD 21613, USA

Zooplankton ecology and behavior; trophic dynamics; prey selection. Competition for space among benthic invertebrates

Rassoulzadegan, F., Dr

Station Zoologique, BP 28, F-06230 Villefranche-sur-Mer, France

Microbial ecology (food webs, microbial loop); pico- and nanoplankton; planktonic flagellates and ciliates; micro- and mesozooplankton; carbon flux

Reise, K., Prof.

Biologische Anstalt Helgoland, D-25992 List/Sylt, Germany

Benthos ecology

Rivkin, R. B., Prof.

Ocean Sciences Centre, University of Newfoundland, St. John's, Nfld, Canada A1C 5S7

Microbial ecology; polar planktonic processes; lower food web dynamics

Savidge, G., Dr

The Queen's Univ. of Belfast, Marine Biology Station, The Strand, Portaferry, Co. Down, Northern Ireland

Phytoplankton ecology; primary production; photosynthesis

Schelltema, R. S., Dr

Woods Hole Oceanographic Institution, Woods Hole, MA 02543, USA

Invertebrate larval ecology

Schneider, D. C., Dr

Newfoundland Institute for Cold Ocean Science, Memorial University of Newfoundland, St. John's, Nfld, Canada A1B 3X7

Dynamics of large organisms; ecology of sea birds

Sherr, B. & E., Drs

College of Oceanography, Oregon State Univ., Oceanography Admin. Bldg 104, Corvallis, OR 97331, USA

Microbial food webs; trophic roles of phagotrophic protozoans

Skjoldal, H. R., Dr

Institute of Marine Research, Postboks 1870, N-5024 Bergen-Nordnes, Norway

Food webs and trophic interactions

Southward, A. J., Dr

Plymouth Marine Laboratory, Citadel Hill, Plymouth PL1 2PB, England

Rocky-coast ecosystems; deep-sea ecosystems

Stoecker, D. K., Dr

Horn Point Environmental Laboratories, PO Box 775, Cambridge, MD 21613, USA

Microzooplankton particularly ciliates; secondary production

Tenore, K. R., Prof.

Chesapeake Biological Laboratory, PO Box 38, Solomons, MD 20688-0038, USA

Benthic ecology and bioenergetics; production; food chains of detritus-based systems

Thayer, G. W., Dr

Ecosystem Structure Branch, Southeast Fisheries Center, Beaufort, NC 28516-9722, USA

Wetlands ecology, incl. submerged seagrasses and emergent marshes; production and utilization of detritus

Underwood, A. J., Dr

School of Biol. Sci., Univ. Sydney, Zoology Building, Sydney, N.S.W. 2006, Australia

Experimental intertidal and subtidal ecology; behavior; life cycles of sessile invertebrates

Vinogradov, M. E., Prof.

P. P. Shirshov Institute of Oceanology, Academy of Sciences of USSR, 1, Letnaya (Ljublino), Moscow 109387, Russia

Oceanic plankton ecosystems; deep-sea amphipods; biological oceanography

Wangersky, P. J., Prof.

Dept of Oceanography, Dalhousie University, Halifax, N.S., Canada B3H 4J1

Organic matter in sea water; theoretical population dynamics; geochemistry; chemical oceanography

Warwick, R. M., Dr

Plymouth Marine Laboratory, Prospect Place, West Hoe, Plymouth PL1 3DH, England

Structure and functioning of benthic communities; meiofaunal ecology; energy flow

West, J. A., Prof.

Dept of Plant Biology, Univ. of California, 111 Genetics Plant Biology Bldg, Berkeley, CA 94720, USA

Reproductive dynamics of red algae; fine structure and parasites of algae

Williams, R., Dr

Plymouth Marine Laboratory, Prospect Place, West Hoe, Plymouth PL1 3DH, England

Plankton ecology; community structure, population dynamics

Wu, B. L., Prof.

First Institute of Oceanography, State Oceanic Administration, PO Box 98, Qingdao, People's Republic of China

Ecology and morphology of coelenterates, echinoderms and polychaetes. Development and reproduction of polychaetes and phoronids

OCEAN MANAGEMENT**Ahmed, S. I., Prof.**

School of Oceanography, WB-10, University of Washington, Seattle, WA 98195, USA

Biofouling; application of biotechnology to marine systems

Alderdice, D., Dr

Pacific Biological Station, Nanaimo, B.C., Canada V9R 5K6

Pollution of environmental environments

Bernhard, M., Dr

ENEA, PO Box 316, I-19100 La Spezia, Italy

Radioactive and conventional pollution

Brown, B. E., Dr

Dept of Biology, The University, Newcastle-upon-Tyne NE1 7RU, England

Effects of man-made and natural disturbances on coral reefs

Eisler, R., Dr

US Dept of the Interior, Fish and Wildlife Service, Laurel, MD 20708, USA

Toxicology and pollution

Elliott, M., Dr

Dept of Applied Biology, Institute of Estuarine and Coastal Studies, The University, Hull HU6 7RX, England

Marine pollution assessment and control

Fisher, N. S., Dr

Marine Sciences Research Center, State Univ. of New York, Stony Brook, NY 11794-5000, USA

Pollutant effects on plankton; radioecology

Fowler, S. W., Dr

IAEA, ILMR, Stade Louis II, Entrée C-19, Ave des Castellans, MC-98000 Monaco

Pollution effects on zooplankton; radioecology

Gray, J., Prof.

Institutt for Marinbiologi og Limnologi, Univ. Oslo, Postboks 1064, Blindern, Oslo 3, Norway

Pollution effects on benthos animals

Luoma, S. N., Dr

US Dept of the Interior, Geological Survey, Water Resources Div., 345 Middlefield Rd, Menlo Park, CA 94025, USA

Bioaccumulation of trace contaminants (principally trace elements and radionuclide waste products)

Mauchline, J., Dr

Scottish Marine Biological Ass., Dunstaffnage Marine Research Laboratory, PO Box 3, Oban, Argyll PA34 4AD, Scotland

Radioactive pollution

McLusky, D. S., Dr

Dept of Biological Sciences, Univ. Stirling, Stirling FK9 4LA, Scotland

Biological effects of pollutants (petro-, chemical, organic enrichment)

Peterson, C. H., Prof.

Institute of Marine Science, Univ. of N. Carolina at Chapel Hill, 3407 Arendell Street, Morehead City, NC 28557, USA

Fisheries management and ecology

Polikarpov, G. G., Prof.

Institute of Biology of South Seas, Academy of Sciences Uk. SSR, 2, Nahimov St., Sevastopol 335000, Ukraine

Chemical ecology, radioecology, radio-tracers, pollution; protection of sea life

Sherman, K., Dr

US Dept of Commerce, NOAA, Northeast Fisheries Center, 28 Tarzwell Dr., Narragansett, RI 02882, USA

Fisheries ecology; fishery resources; zooplankton

Westernhagen, H. von, Dr

Biologische Anstalt Helgoland, Notkestr. 31, D-22607 Hamburg, Germany

Fish egg and larval survival

Wu, B. L., Prof.

First Institute of Oceanography, State Oceanic Administration, PO Box 98, Qingdao, People's Republic of China

Effects of pollutants on benthic organisms

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MARINE ECOLOGY PROGRESS SERIES

HISTORY: Marine Ecology Progress Series (MEPS) was established in response to requests from numerous marine ecologists from all over the world. When founded, MEPS was based on 'Marine Ecology' – the first comprehensive, integrated treatise on life in oceans and coastal waters – conceived, organized and edited by Professor Otto Kinne, and published by John Wiley & Sons.

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Cultivation: Maintenance and rearing of, as well as experimentation with, marine organisms under environmental and nutritional conditions which are, to a considerable degree, controlled; analysis of the physiological and ecological potential of individuals, populations and species; determination of nutritional requirements; ecological aspects of aquaculture; water-quality management; culture technology.

Dynamics: Production, transformation, and decomposition of organic matter; flow patterns of energy and matter as these pass through organisms, populations and ecosystems; biodiversity; variability of ecosystem components; trophic interrelations; population dynamics; plankton ecology; benthos ecology; estuarine and coastal ecology; wadden-sea ecology; coral reef ecology; deep-sea ecology; open-ocean ecology; polar ecology; theoretical ecology; ecological methodology; ecological modelling and computer simulation.

Ocean Management: Human-caused impacts: their role as modifiers and deformers of living systems, their biological consequences and their management and control; inventory of living resources in coastal areas, estuaries and open oceans; ecological aspects of fisheries; pollution of marine areas and organisms; protection of life in the seas; management of populations, species and ecosystems; management of coastal zones and sea areas; biotechnology.

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